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RAW SEQUENCE LISTING DATE: 08/23/2001 PATENT APPLICATION: US/09/930,906 TIME: 16:50:38

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             Li, Changjiang
     6 <120> TITLE OF INVENTION: Methods and Compositions for Modifying Oil and Protein
             Content in Plants
     9 <130> FILE REFERENCE: 5718-113 (35718/236392)
C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/930,906
C--> 12 <141> CURRENT FILING DATE: 2001-08-16
    14 <150> PRIOR APPLICATION NUMBER: 60/226,142
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    15 <151> PRIOR FILING DATE: 2000-08-18
    17 <160> NUMBER OF SEQ ID NOS: 6
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    23 <212> TYPE: DNA
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                                                      120
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	140	AIG	G111	ASII	1111	145	GIY	ASII	val	116	150	116	Mec	Leu	АБР	155	
		aat	aat	~~~	a++		201	~~~	a - +	a++		~~~		a + a	a + ~		(50
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	Lys	GTA	Pro	GIU		Arg	ser	GTA	Asp		Pro	GLu	Pro	Пе		Leu	
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	-	-				_				_	_		Lys	_	_		
97			-		240					245	5	1	-1-		250		
	t.t.a	cca	tet	atc		σaσ	aaσ	gat	t.aa		gac	ata	aaa	ttt		atc	938
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101			501	255		014	212		260		11.5	, 110	. 115	265	-	, , , ,	
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105			270		1151	· inc	1 1 1	275		. DCI	1110	· vui	280	-	, HIC	г Буз	
		ato			tta	ааа	gac				agt	act			rat	ata	1034
																lle	1034
109		285		GIU	пес	. цуз	290	_	пес	. шуз	Ser	295		АТа	ASF	, IIG	
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		TIE	116	н Ата			Asp	СТУ	Ата			. Ата	Arg	GLŸ	-	Leu	
117					320					325					330		
																att	1178
	_	Ala	Glu			lle	GIu	Asp			Leu	Leu	GIn			Ile	
121				335					340					345			
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141				415			_	Thr	420				-	425			
144			Pro	_		_	_	tct		_			Gln			_	1466
145 147	ttc	tee	430 gca	age	cag	cta	agt	435 aaa	ato	ttc	gga	tet	440 cat	gca	acq	ato	1514
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149		445					450					455					
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		Ala	Asn	Thr	Leu		Thr	Pro	Ile	Ile		Phe	Thr	Gln	Thr	-	
	460	2 ± 0	aat	ata	ata	465	200	cac	+ 1	oat	470	+ 00	tat	202	at a	475	1610
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157	001	1100			480	LCu	DCI		- 1 -	485		001	001	****	490	1110	
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			_	-		_	-	Leu	=		_				-	_	_,
169		525	_				530			_		535	-		-	-	
		_		-			_	cag	-							_	1802
	-	Asp	Tyr	Val	Thr		Val	Gln	Ser	Gly		Thr	Ser	Ile	Trp	_	
	540	~~~	+ 00	20+	a.a.a	545	2+0	a	~+~	200	550	~++	~~~	a+ a		555	1844
		-						caa Gln									1844
177	OLU	Olu	DCI	1111	560		110	OIII	, u _	565	1,5	V 44 1	0111	, 41			
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251 252	Phe	Tyr	Ala 275	Val	Ser	Phe	Val	Lys 280	Asp	Ala	Lys	Val	Ile 285	His	Glu	Leu
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276	T		m l.	a 1	405	a -	.			410	m1.	m1		_	415	_
2/8	Leu	Arg	Inr	GIu	ser	ser	Leu	Tyr	Asn	Pro	Thr	Thr	Ser	Pro	Ser	Leu

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425 281 Val Ala Ser Ala Gln Gly Leu Gln Asn Glu Asp Phe Ser Ala Ser Gln 435 440 284 Leu Ser Lys Met Phe Gly Ser His Ala Thr Met Met Ala Asn Thr Leu 455 287 Arg Thr Pro Ile Ile Val Phe Thr Gln Thr Gly Ser Met Ala Val Leu 470 475 290 Leu Ser His Tyr Arg Pro Ser Ser Thr Leu Phe Ala Phe Thr Asn Glu 485 490 293 Glu Arg Val Lys Gln Arg Leu Ala Leu Tyr Gln Gly Val Ile Pro Ile 500 505 296 His Met Gln Phe Ser Asp Asp Ala Glu Glu Thr Phe Ser Arg Ala Ile 515 520 525 299 Ser Ser Leu Leu Lys Ala Gln Tyr Val Lys Lys Gly Asp Tyr Val Thr 300 530 535 540 302 Leu Val Gln Ser Gly Val Thr Ser Ile Trp Arg Glu Glu Ser Thr His 550 555 305 His Ile Gln Val Arg Lys Val Gln Val 565 310 <210> SEQ ID NO: 3 311 <211> LENGTH: 1922 312 <212> TYPE: DNA 313 <213> ORGANISM: Zea mays 315 <220> FEATURE: 316 <221> NAME/KEY: CDS 317 <222> LOCATION: (148)..(1674) 319 <400> SEQUENCE: 3 320 cccqqqqaag aatccttctc qacqccqccc ccattcattc ttqqaqqqca agaaqaacqc 60 322 gcagtccaaa agcgaaacaa ggggaagggg cgaggcagcc aaacgaatcc cagcacctgc 120 324 eteteettig ettigegeaga tetageg atg geg geg ggt gag tig geg tgg 174 325 Met Ala Ala Gly Gly Glu Leu Ala Trp 1 328 ggg gag gag ecc gtg geg egg egc egg ect aag acc aag atc gte tge 222 329 Gly Glu Glu Pro Val Ala Arg Arg Pro Lys Thr Lys Ile Val Cys 15 20 332 acq ctc qqc ccg gcg tcg cga tcc gtc gag atg atc tcg cgc ctg ctg 270 333 Thr Leu Gly Pro Ala Ser Arg Ser Val Glu Met Ile Ser Arg Leu Leu 336 ege gee ggg atg tge gte geg ege tte aae tte tee eat gge tee eae 318 337 Arg Ala Gly Met Cys Val Ala Arg Phe Asn Phe Ser His Gly Ser His 45 50 55 340 gag tac cac cag gag acg ctc gac aac ctg cac gcc gcc atg gag ctc 366 341 Glu Tyr His Gln Glu Thr Leu Asp Asn Leu His Ala Ala Met Glu Leu 60 65 344 acc ggg atc ctc tgc gcc gtt atg ctc gac acc aag ggt cca gag att 414 345 Thr Gly Ile Leu Cys Ala Val Met Leu Asp Thr Lys Gly Pro Glu Ile 346 75 80 85 348 aga act gga ttt ttg aaa gat ggg aag cct att caa ttg ata aaa ggc 462 349 Arg Thr Gly Phe Leu Lys Asp Gly Lys Pro Ile Gln Leu Ile Lys Gly



VERIFICATION SUMMARY

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L:11 M:270 C: Current Application Number differs, Replaced Application Number L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date